

**Appendix A.15****1. Effective (Isotropic) Radiated Power Output Data****1.1 Test Result****1.1.1 B26b_1.4MHz_ERP**

Band: 26b / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	824.7	1	0	21.93	1.40	21.18	<=38.45	Pass
			2	21.92	1.40	21.17	<=38.45	Pass
			5	21.94	1.40	21.19	<=38.45	Pass
		3	0	22.03	1.40	21.28	<=38.45	Pass
			2	22.10	1.40	21.35	<=38.45	Pass
			3	22.02	1.40	21.27	<=38.45	Pass
		6	0	21.19	1.40	20.44	<=38.45	Pass
	836.5	1	0	22.16	1.40	21.41	<=38.45	Pass
			2	22.17	1.40	21.42	<=38.45	Pass
			5	22.18	1.40	21.43	<=38.45	Pass
		3	0	21.99	1.40	21.24	<=38.45	Pass
			2	22.08	1.40	21.33	<=38.45	Pass
			3	22.11	1.40	21.36	<=38.45	Pass
		6	0	21.10	1.40	20.35	<=38.45	Pass
	848.3	1	0	22.04	1.40	21.29	<=38.45	Pass
			2	22.01	1.40	21.26	<=38.45	Pass
			5	22.18	1.40	21.43	<=38.45	Pass
		3	0	22.02	1.40	21.27	<=38.45	Pass
			2	22.09	1.40	21.34	<=38.45	Pass
			3	22.11	1.40	21.36	<=38.45	Pass
		6	0	21.11	1.40	20.36	<=38.45	Pass
16QAM	824.7	1	0	20.80	1.40	20.05	<=38.45	Pass
			2	20.95	1.40	20.20	<=38.45	Pass
			5	20.92	1.40	20.17	<=38.45	Pass
		3	0	21.36	1.40	20.61	<=38.45	Pass
			2	21.05	1.40	20.30	<=38.45	Pass
			3	21.11	1.40	20.36	<=38.45	Pass
		6	0	20.16	1.40	19.41	<=38.45	Pass
	836.5	1	0	21.87	1.40	21.12	<=38.45	Pass
			2	21.83	1.40	21.08	<=38.45	Pass
			5	21.83	1.40	21.08	<=38.45	Pass
		3	0	21.45	1.40	20.70	<=38.45	Pass
			2	21.16	1.40	20.41	<=38.45	Pass



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			3	21.07	1.40	20.32	<=38.45	Pass
		6	0	19.96	1.40	19.21	<=38.45	Pass
	848.3	1	0	21.51	1.40	20.76	<=38.45	Pass
			2	21.46	1.40	20.71	<=38.45	Pass
			5	21.35	1.40	20.60	<=38.45	Pass
		3	0	21.14	1.40	20.39	<=38.45	Pass
			2	21.27	1.40	20.52	<=38.45	Pass
			3	21.22	1.40	20.47	<=38.45	Pass
		6	0	19.97	1.40	19.22	<=38.45	Pass
	Note1: ERP=Conducted Power+Antenna Gain-2.15							

1.1.2 B26b_3MHz_ERP

Band: 26b / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	825.5	1	0	21.96	1.40	21.21	<=38.45	Pass
			7	22.11	1.40	21.36	<=38.45	Pass
			14	22.02	1.40	21.27	<=38.45	Pass
		8	0	21.08	1.40	20.33	<=38.45	Pass
			4	21.07	1.40	20.32	<=38.45	Pass
			7	21.05	1.40	20.30	<=38.45	Pass
		15	0	21.06	1.40	20.31	<=38.45	Pass
	836.5	1	0	22.08	1.40	21.33	<=38.45	Pass
			7	22.17	1.40	21.42	<=38.45	Pass
			14	22.01	1.40	21.26	<=38.45	Pass
		8	0	21.09	1.40	20.34	<=38.45	Pass
			4	21.08	1.40	20.33	<=38.45	Pass
			7	21.09	1.40	20.34	<=38.45	Pass
		15	0	21.09	1.40	20.34	<=38.45	Pass
	847.5	1	0	21.94	1.40	21.19	<=38.45	Pass
			7	22.22	1.40	21.47	<=38.45	Pass
			14	22.01	1.40	21.26	<=38.45	Pass
		8	0	21.07	1.40	20.32	<=38.45	Pass
			4	21.03	1.40	20.28	<=38.45	Pass
			7	21.02	1.40	20.27	<=38.45	Pass
		15	0	21.07	1.40	20.32	<=38.45	Pass
16QAM	825.5	1	0	20.87	1.40	20.12	<=38.45	Pass
			7	20.87	1.40	20.12	<=38.45	Pass
			14	20.81	1.40	20.06	<=38.45	Pass
		8	0	20.15	1.40	19.40	<=38.45	Pass
			4	20.16	1.40	19.41	<=38.45	Pass
			7	20.00	1.40	19.25	<=38.45	Pass



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	836.5	15	0	20.06	1.40	19.31	<=38.45	Pass
		1	0	21.58	1.40	20.83	<=38.45	Pass
			7	21.79	1.40	21.04	<=38.45	Pass
			14	21.51	1.40	20.76	<=38.45	Pass
		8	0	19.86	1.40	19.11	<=38.45	Pass
			4	20.07	1.40	19.32	<=38.45	Pass
			7	20.21	1.40	19.46	<=38.45	Pass
		15	0	19.81	1.40	19.06	<=38.45	Pass
	847.5	1	0	21.47	1.40	20.72	<=38.45	Pass
			7	21.62	1.40	20.87	<=38.45	Pass
			14	21.63	1.40	20.88	<=38.45	Pass
		8	0	20.21	1.40	19.46	<=38.45	Pass
			4	20.18	1.40	19.43	<=38.45	Pass
			7	20.30	1.40	19.55	<=38.45	Pass
		15	0	19.94	1.40	19.19	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.3 B26b_5MHz_ERP

Band: 26b / Bandwidth: 5MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	826.5	1	0	21.90	1.40	21.15	<=38.45	Pass
			13	22.07	1.40	21.32	<=38.45	Pass
			24	21.88	1.40	21.13	<=38.45	Pass
		12	0	21.05	1.40	20.30	<=38.45	Pass
			6	21.11	1.40	20.36	<=38.45	Pass
			13	21.13	1.40	20.38	<=38.45	Pass
		25	0	21.09	1.40	20.34	<=38.45	Pass
	836.5	1	0	21.82	1.40	21.07	<=38.45	Pass
			13	21.91	1.40	21.16	<=38.45	Pass
			24	21.60	1.40	20.85	<=38.45	Pass
		12	0	21.05	1.40	20.30	<=38.45	Pass
			6	21.12	1.40	20.37	<=38.45	Pass
			13	21.07	1.40	20.32	<=38.45	Pass
		25	0	21.01	1.40	20.26	<=38.45	Pass
	846.5	1	0	21.74	1.40	20.99	<=38.45	Pass
			13	21.86	1.40	21.11	<=38.45	Pass
			24	21.87	1.40	21.12	<=38.45	Pass
		12	0	20.98	1.40	20.23	<=38.45	Pass
			6	20.97	1.40	20.22	<=38.45	Pass
			13	21.10	1.40	20.35	<=38.45	Pass
		25	0	21.05	1.40	20.30	<=38.45	Pass



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16QAM	826.5	1	0	20.75	1.40	20.00	<=38.45	Pass
			13	21.09	1.40	20.34	<=38.45	Pass
			24	20.83	1.40	20.08	<=38.45	Pass
		12	0	19.95	1.40	19.20	<=38.45	Pass
			6	20.03	1.40	19.28	<=38.45	Pass
			13	19.96	1.40	19.21	<=38.45	Pass
		25	0	19.96	1.40	19.21	<=38.45	Pass
	836.5	1	0	21.51	1.40	20.76	<=38.45	Pass
			13	21.92	1.40	21.17	<=38.45	Pass
			24	21.56	1.40	20.81	<=38.45	Pass
		12	0	19.76	1.40	19.01	<=38.45	Pass
			6	19.95	1.40	19.20	<=38.45	Pass
			13	19.71	1.40	18.96	<=38.45	Pass
		25	0	19.93	1.40	19.18	<=38.45	Pass
	846.5	1	0	20.50	1.40	19.75	<=38.45	Pass
			13	20.54	1.40	19.79	<=38.45	Pass
			24	20.16	1.40	19.41	<=38.45	Pass
		12	0	19.88	1.40	19.13	<=38.45	Pass
			6	19.94	1.40	19.19	<=38.45	Pass
			13	19.95	1.40	19.20	<=38.45	Pass
		25	0	20.08	1.40	19.33	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.4 B26b_10MHz_ERP

Band: 26b / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	829	1	0	22.04	1.40	21.29	<=38.45	Pass
			25	22.44	1.40	21.69	<=38.45	Pass
			49	22.14	1.40	21.39	<=38.45	Pass
		25	0	20.96	1.40	20.21	<=38.45	Pass
			13	21.12	1.40	20.37	<=38.45	Pass
			25	21.06	1.40	20.31	<=38.45	Pass
		50	0	21.01	1.40	20.26	<=38.45	Pass
	836.5	1	0	22.14	1.40	21.39	<=38.45	Pass
			25	22.44	1.40	21.69	<=38.45	Pass
			49	22.08	1.40	21.33	<=38.45	Pass
		25	0	21.12	1.40	20.37	<=38.45	Pass
			13	21.11	1.40	20.36	<=38.45	Pass
			25	21.12	1.40	20.37	<=38.45	Pass
		50	0	21.13	1.40	20.38	<=38.45	Pass
	844	1	0	21.90	1.40	21.15	<=38.45	Pass



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			25	22.00	1.40	21.25	<=38.45	Pass
			49	22.05	1.40	21.30	<=38.45	Pass
16QAM	829	25	0	21.02	1.40	20.27	<=38.45	Pass
			13	21.11	1.40	20.36	<=38.45	Pass
			25	21.08	1.40	20.33	<=38.45	Pass
		50	0	21.03	1.40	20.28	<=38.45	Pass
			1	21.11	1.40	20.36	<=38.45	Pass
			25	21.09	1.40	20.34	<=38.45	Pass
	836.5	1	49	20.74	1.40	19.99	<=38.45	Pass
			0	20.19	1.40	19.44	<=38.45	Pass
		25	13	20.22	1.40	19.47	<=38.45	Pass
			25	20.17	1.40	19.42	<=38.45	Pass
		50	0	19.96	1.40	19.21	<=38.45	Pass
			1	21.42	1.40	20.67	<=38.45	Pass
			25	21.79	1.40	21.04	<=38.45	Pass
		1	49	21.92	1.40	21.17	<=38.45	Pass
			0	20.07	1.40	19.32	<=38.45	Pass
		25	13	20.28	1.40	19.53	<=38.45	Pass
			25	20.20	1.40	19.45	<=38.45	Pass
	844	50	0	20.09	1.40	19.34	<=38.45	Pass
			1	21.64	1.40	20.89	<=38.45	Pass
			25	21.87	1.40	21.12	<=38.45	Pass
		1	49	21.55	1.40	20.80	<=38.45	Pass
			0	20.19	1.40	19.44	<=38.45	Pass
		25	13	20.14	1.40	19.39	<=38.45	Pass
			25	19.99	1.40	19.24	<=38.45	Pass
		50	0	19.99	1.40	19.24	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.5 B26b_15MHz_ERP

Band: 26b / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	831.5	1	0	21.85	1.40	21.10	<=38.45	Pass
			38	21.91	1.40	21.16	<=38.45	Pass
			74	21.80	1.40	21.05	<=38.45	Pass
		36	0	21.03	1.40	20.28	<=38.45	Pass
			18	21.05	1.40	20.30	<=38.45	Pass
			39	21.11	1.40	20.36	<=38.45	Pass
		75	0	21.07	1.40	20.32	<=38.45	Pass
	836.5	1	0	21.87	1.40	21.12	<=38.45	Pass
			38	22.19	1.40	21.44	<=38.45	Pass



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16QAM	841.5	36	74	22.08	1.40	21.33	<=38.45	Pass
			0	21.02	1.40	20.27	<=38.45	Pass
			18	21.14	1.40	20.39	<=38.45	Pass
			39	21.09	1.40	20.34	<=38.45	Pass
		75	0	21.13	1.40	20.38	<=38.45	Pass
		1	0	21.90	1.40	21.15	<=38.45	Pass
			38	22.17	1.40	21.42	<=38.45	Pass
			74	22.22	1.40	21.47	<=38.45	Pass
			0	21.08	1.40	20.33	<=38.45	Pass
	831.5	36	18	21.05	1.40	20.30	<=38.45	Pass
			39	21.03	1.40	20.28	<=38.45	Pass
			0	21.09	1.40	20.34	<=38.45	Pass
			0	21.23	1.40	20.48	<=38.45	Pass
		1	38	21.34	1.40	20.59	<=38.45	Pass
			74	20.68	1.40	19.93	<=38.45	Pass
			0	20.04	1.40	19.29	<=38.45	Pass
			18	20.16	1.40	19.41	<=38.45	Pass
16QAM	836.5	36	39	20.18	1.40	19.43	<=38.45	Pass
			0	20.08	1.40	19.33	<=38.45	Pass
		1	0	21.93	1.40	21.18	<=38.45	Pass
			38	22.33	1.40	21.58	<=38.45	Pass
			74	21.76	1.40	21.01	<=38.45	Pass
			0	20.00	1.40	19.25	<=38.45	Pass
		36	18	20.12	1.40	19.37	<=38.45	Pass
			39	19.93	1.40	19.18	<=38.45	Pass
	841.5	75	0	20.00	1.40	19.25	<=38.45	Pass
			0	21.48	1.40	20.73	<=38.45	Pass
			38	22.40	1.40	21.65	<=38.45	Pass
			74	21.51	1.40	20.76	<=38.45	Pass
		36	0	19.96	1.40	19.21	<=38.45	Pass
			18	20.15	1.40	19.40	<=38.45	Pass
			39	20.02	1.40	19.27	<=38.45	Pass
		75	0	20.06	1.40	19.31	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B26b_10MHz

Band: 26b / Bandwidth: 10MHz							
Modulation	Frequency	RB Allocation	Temp.	Voltage	Freq. Error	Freq. vs. Rated (ppm)	Verdict

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	(MHz)	Size	Offset	(°C)	(VDC)	(Hz)	Result	Limit	
QPSK	836.5	50	0	20	LV	-0.329	-0.0004	-2.5 to 2.5	Pass
					NV	0.415	0.0005	-2.5 to 2.5	Pass
					HV	-0.143	-0.0002	-2.5 to 2.5	Pass
				-30	NV	-0.043	-0.0001	-2.5 to 2.5	Pass
				-20	NV	-0.200	-0.0002	-2.5 to 2.5	Pass
				-10	NV	-0.243	-0.0003	-2.5 to 2.5	Pass
				0	NV	-0.415	-0.0005	-2.5 to 2.5	Pass
				10	NV	0.200	0.0002	-2.5 to 2.5	Pass
				30	NV	0.300	0.0004	-2.5 to 2.5	Pass
				40	NV	-0.029	0.0000	-2.5 to 2.5	Pass
				50	NV	-0.014	0.0000	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band26b_OBW

Band: 26b / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	836.5	6	0	1.081	/	Pass
	16QAM	836.5	6	0	1.083	/	Pass
3	QPSK	836.5	15	0	2.688	/	Pass
	16QAM	836.5	15	0	2.679	/	Pass
5	QPSK	836.5	25	0	4.464	/	Pass
	16QAM	836.5	25	0	4.464	/	Pass
10	QPSK	836.5	50	0	8.951	/	Pass
	16QAM	836.5	50	0	8.955	/	Pass
15	QPSK	836.5	75	0	13.463	/	Pass
	16QAM	836.5	75	0	13.431	/	Pass

3.1.2 Band26b_XDB

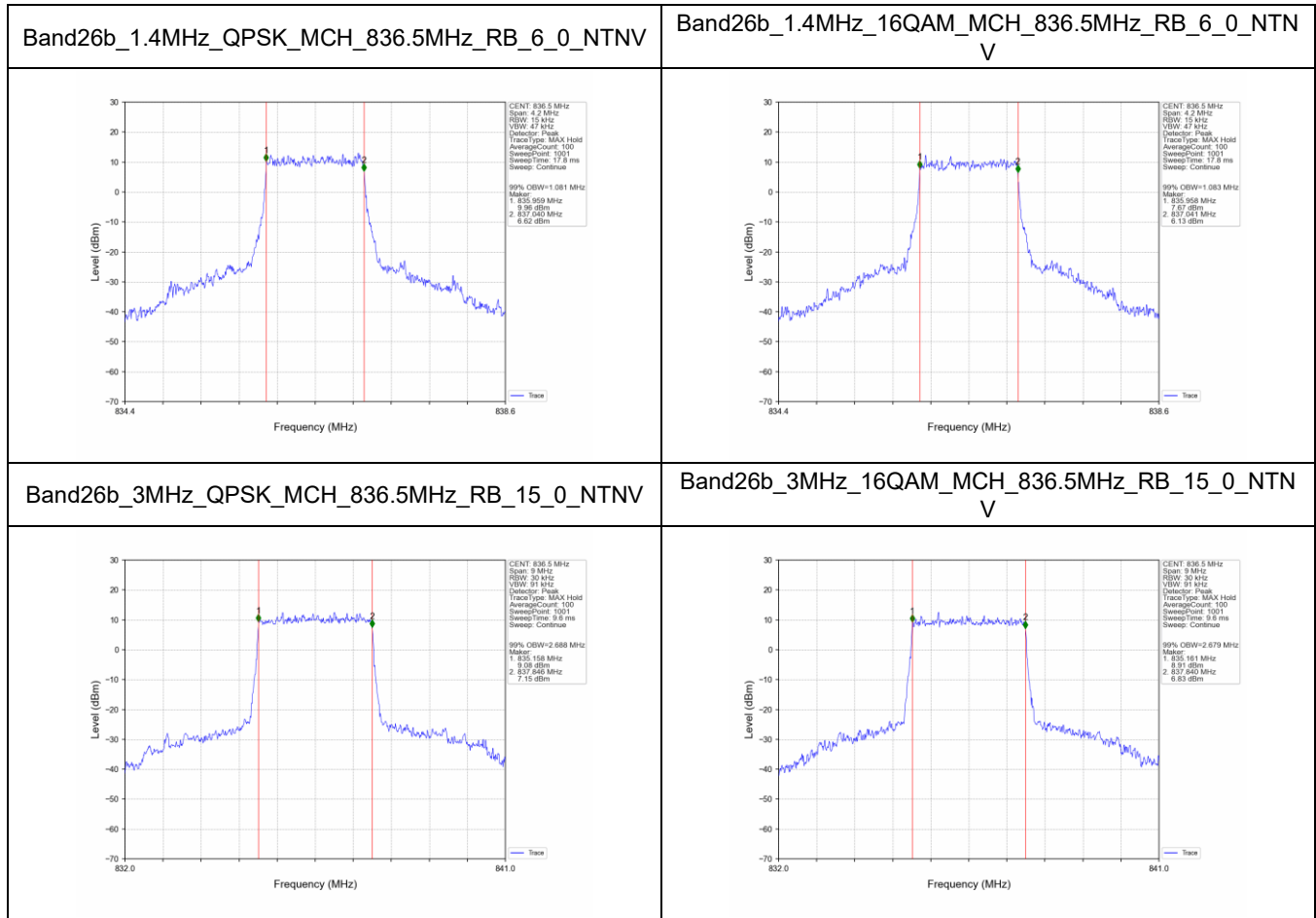
Band: 26b / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	836.5	6	0	1.241	/	Pass
	16QAM	836.5	6	0	1.247	/	Pass
3	QPSK	836.5	15	0	2.927	/	Pass
	16QAM	836.5	15	0	2.918	/	Pass

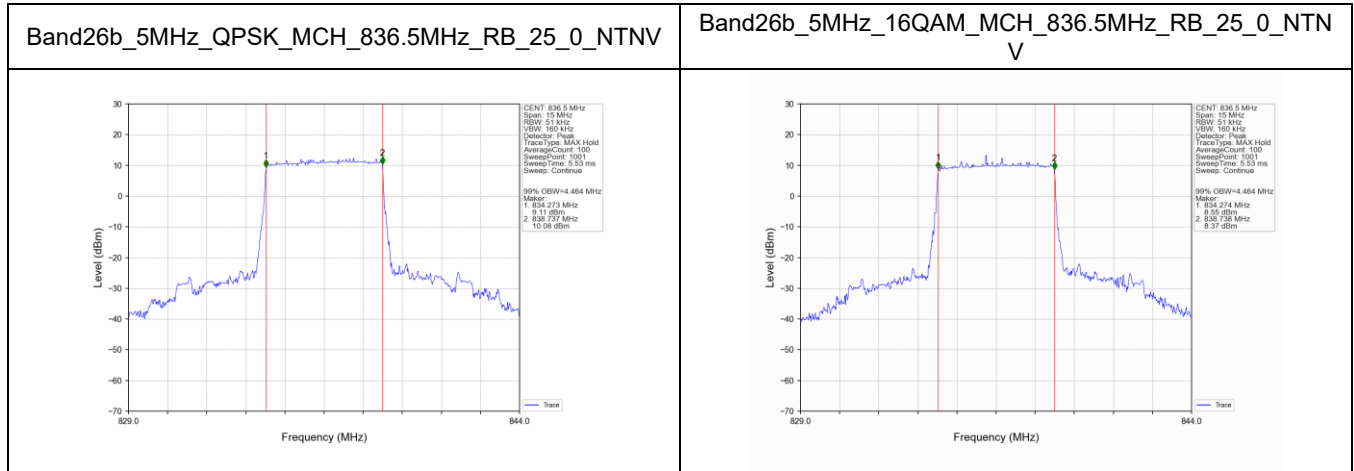


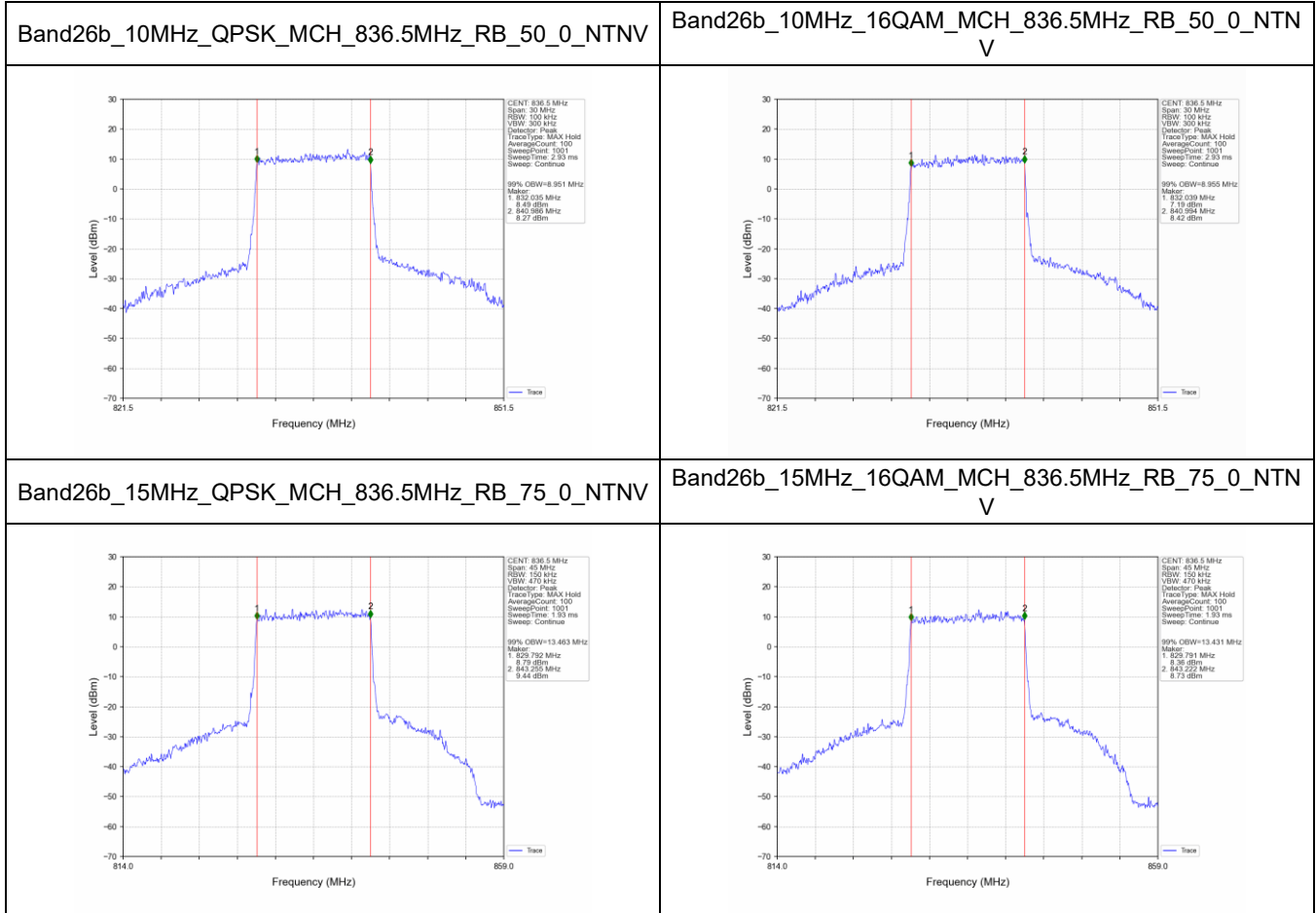
5	QPSK	836.5	25	0	4.888	/	Pass
	16QAM	836.5	25	0	4.841	/	Pass
10	QPSK	836.5	50	0	9.680	/	Pass
	16QAM	836.5	50	0	9.699	/	Pass
15	QPSK	836.5	75	0	14.435	/	Pass
	16QAM	836.5	75	0	14.459	/	Pass

3.2 Test Graph

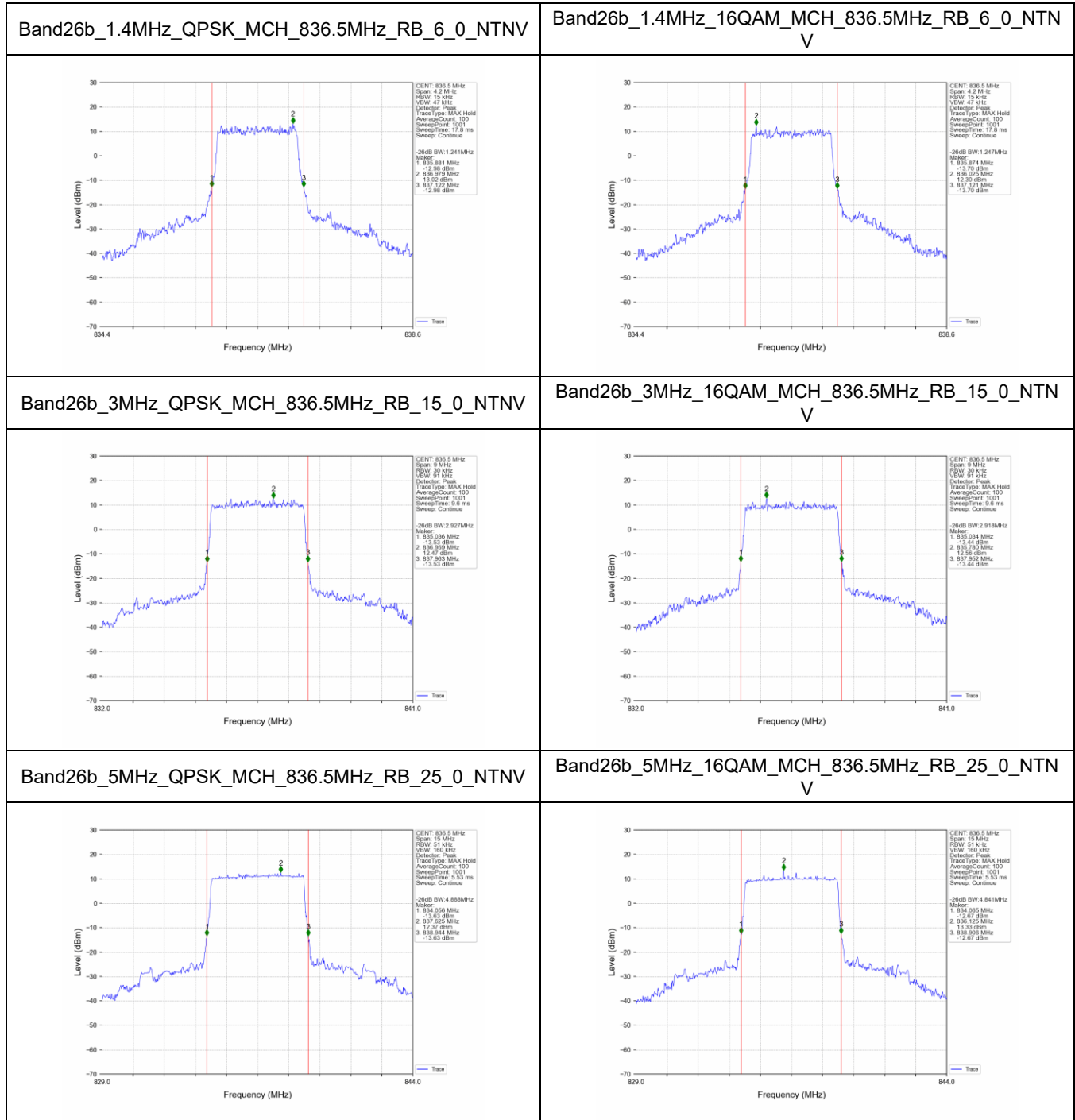
3.2.1 Band26b_OBW

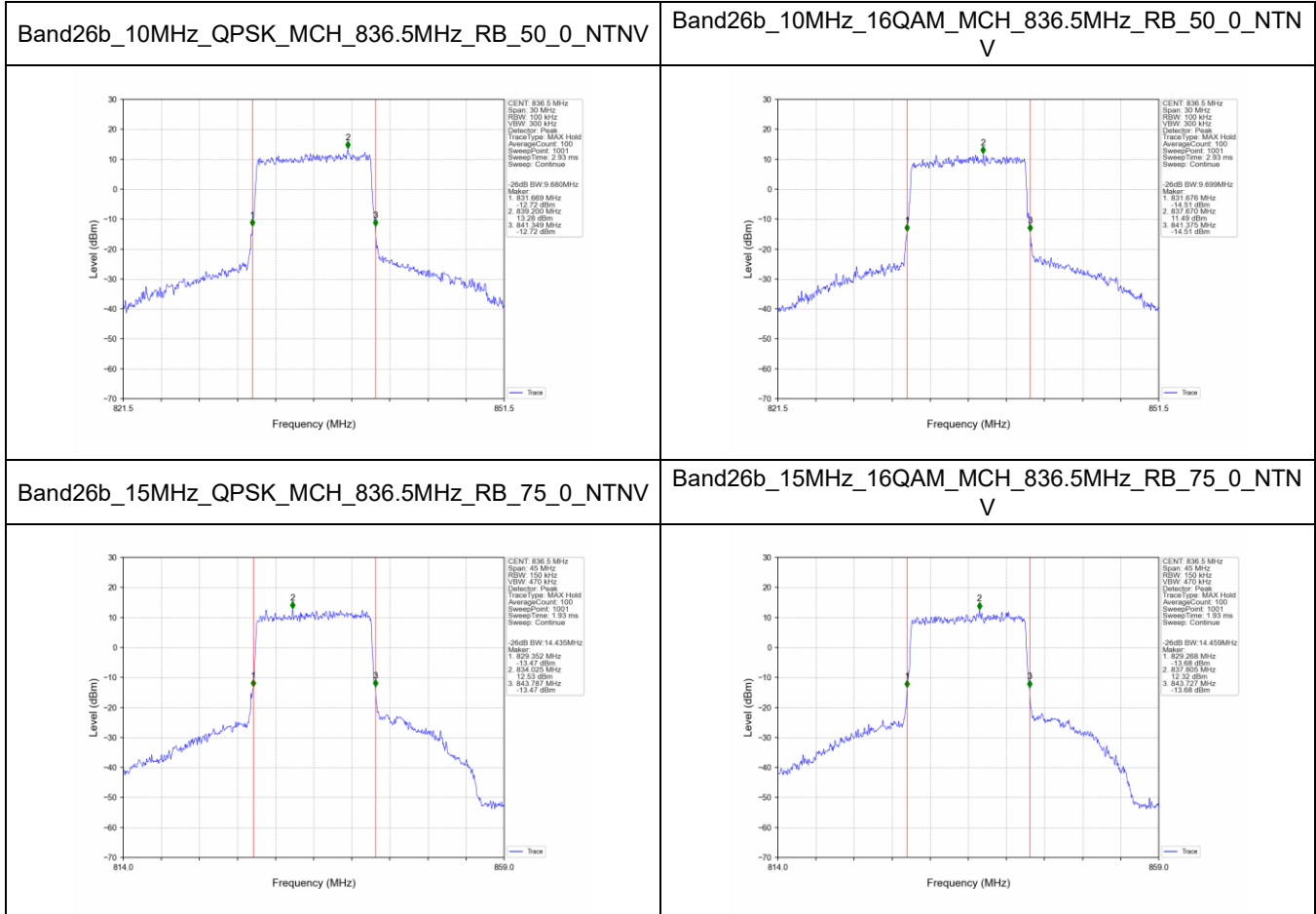






3.2.2 Band26b_XDB







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4. Peak-Average Ratio

4.1 Test Result

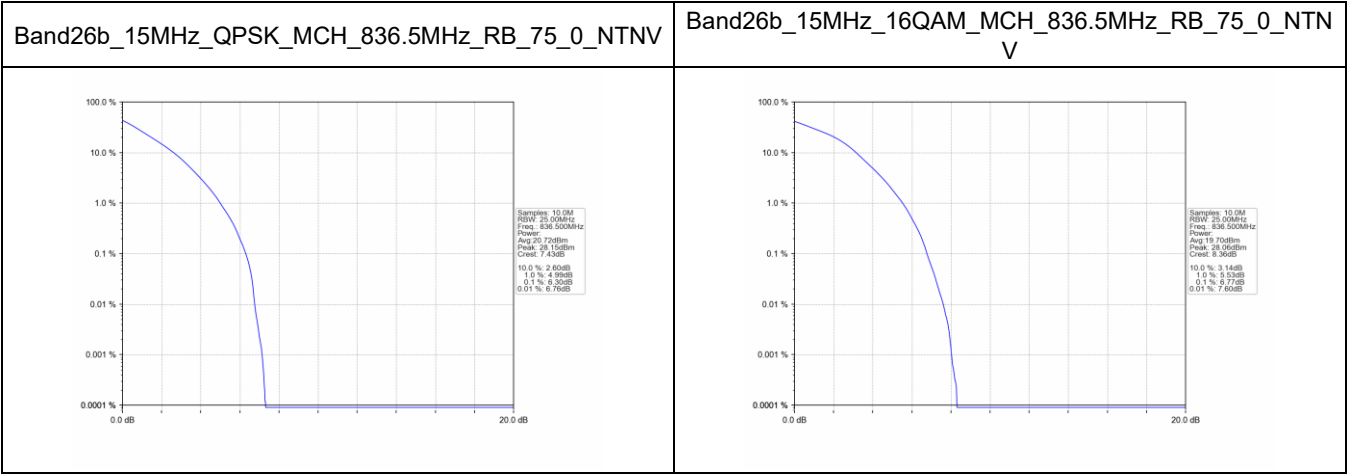
4.1.1 B26b_15MHz

Band: 26b / Bandwidth: 15MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	75	0	6.30	<=13	Pass
16QAM	836.5	75	0	6.77	<=13	Pass



4.2 Test Graph

4.2.1 B26b_15MHz





5. Spurious Emission

5.1 Test Result

5.1.1 B26b_1.4MHz

Band: 26b / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	848.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

5.1.2 B26b_3MHz

Band: 26b / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	847.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

5.1.3 B26b_5MHz

Band: 26b / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	846.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.4 B26b_10MHz



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Band: 26b / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	829	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	844	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

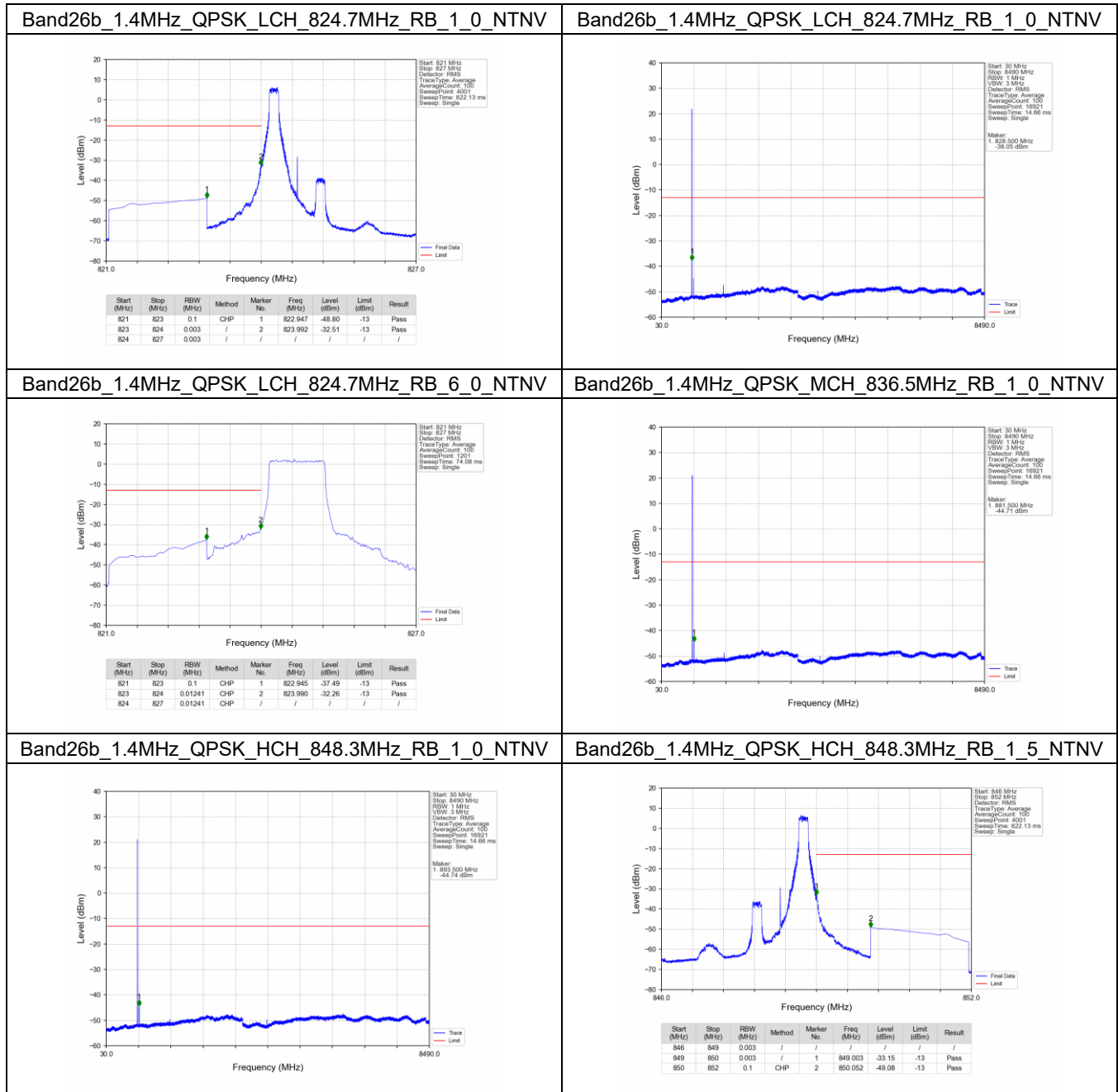
5.1.5 B26b_15MHz

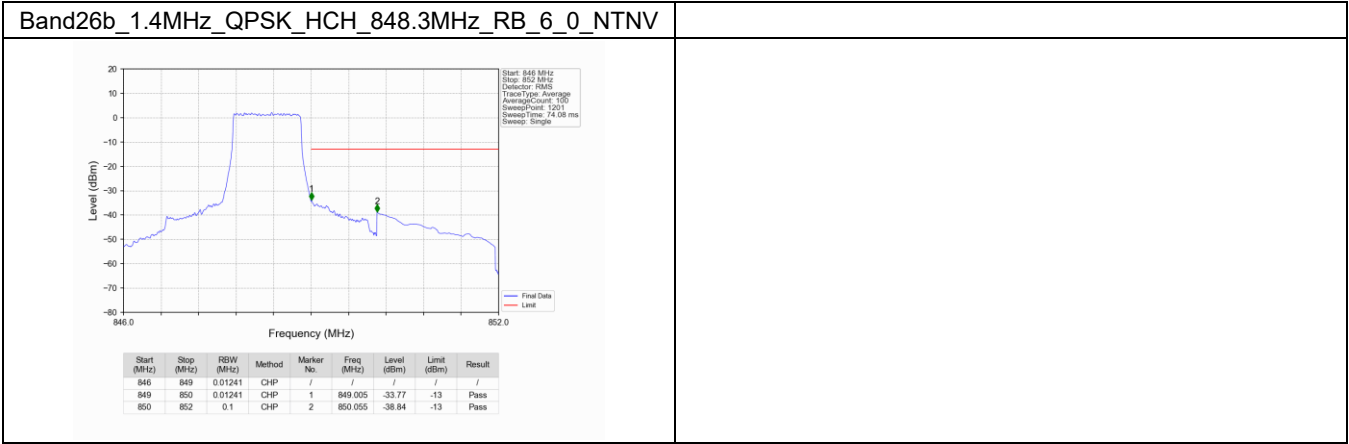
Band: 26b / Bandwidth: 15MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	831.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	841.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass



5.2 Test Graph

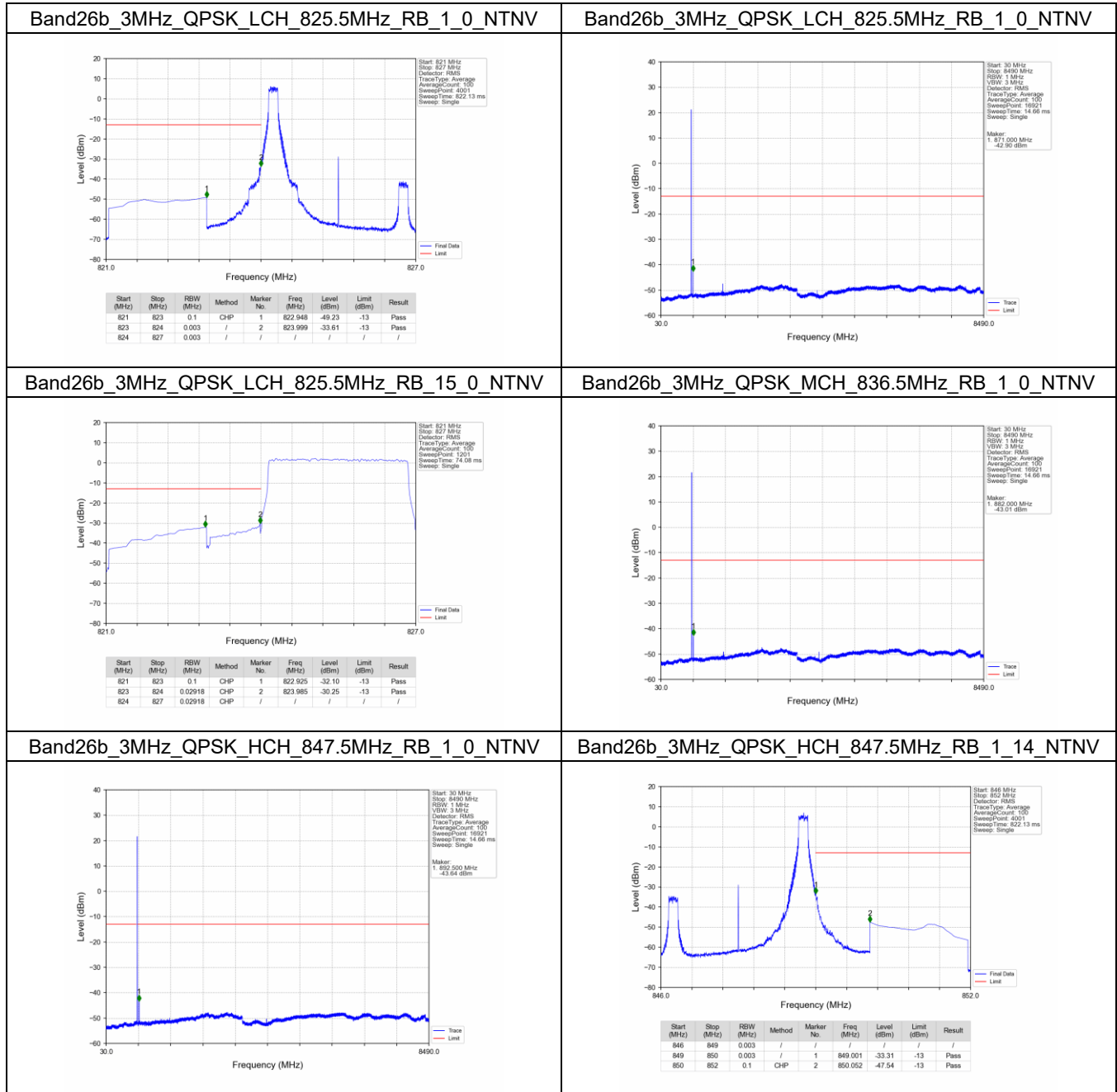
5.2.1 B26b_1.4MHz

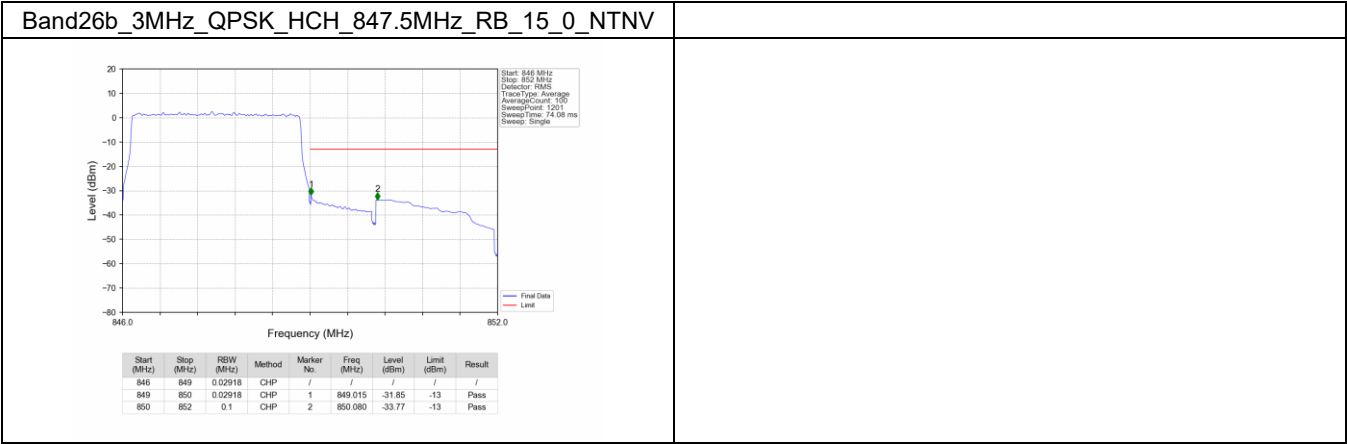




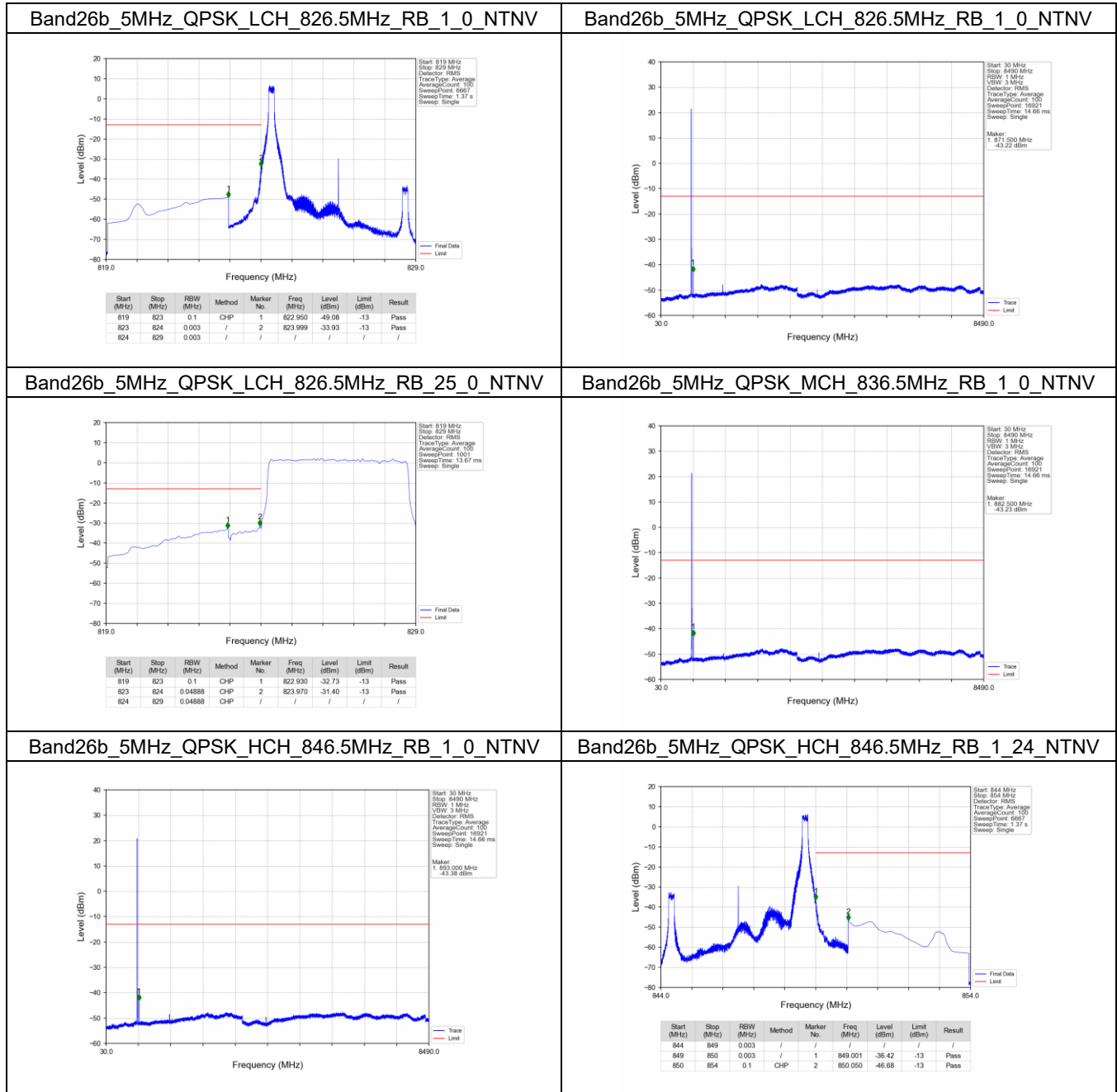


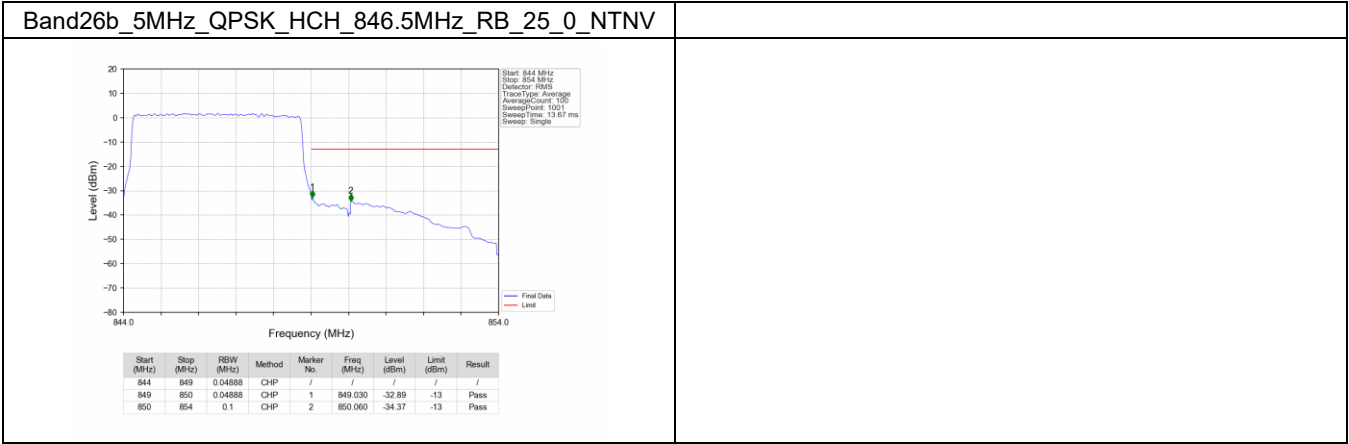
5.2.2 B26b_3MHz



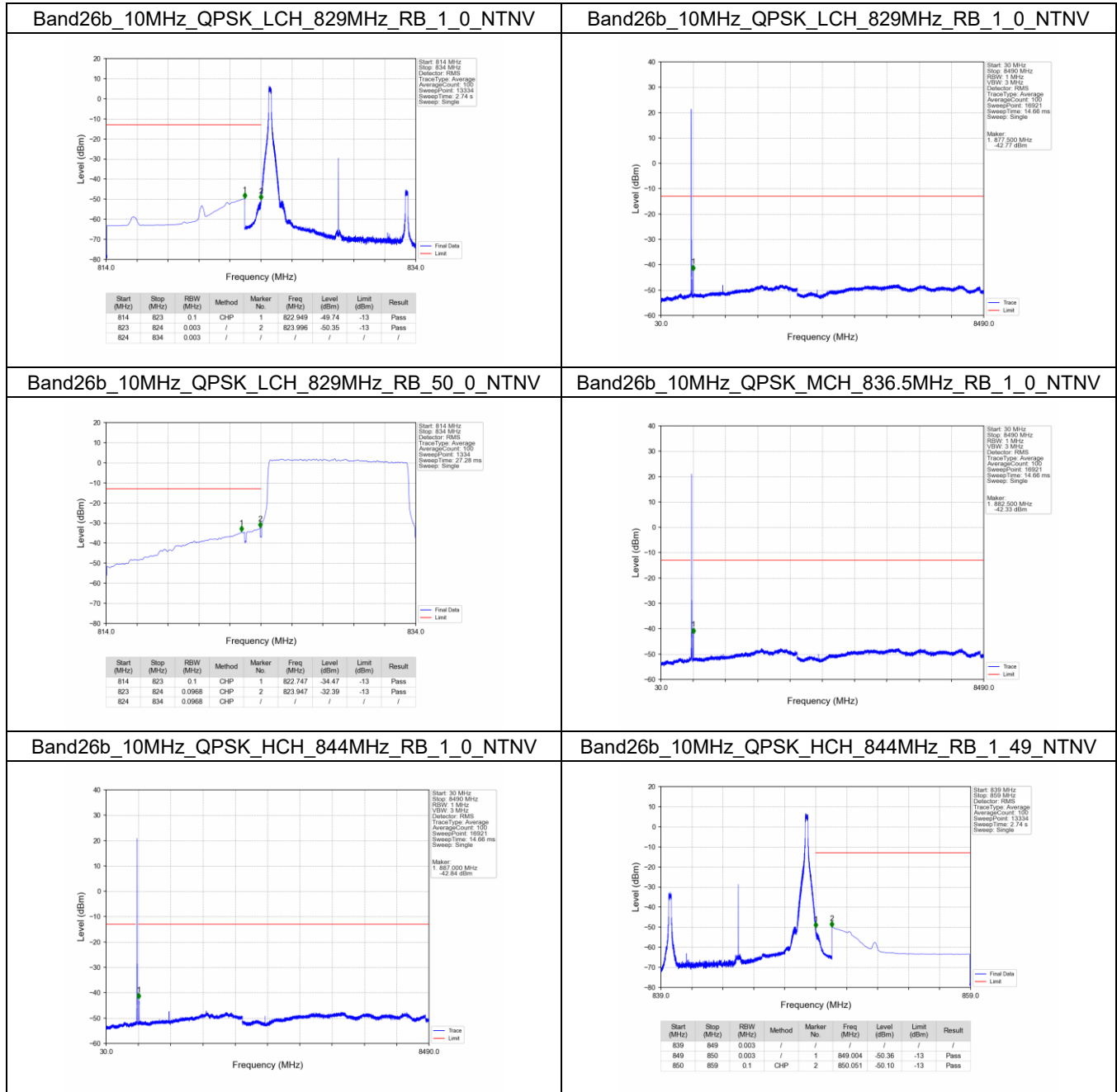


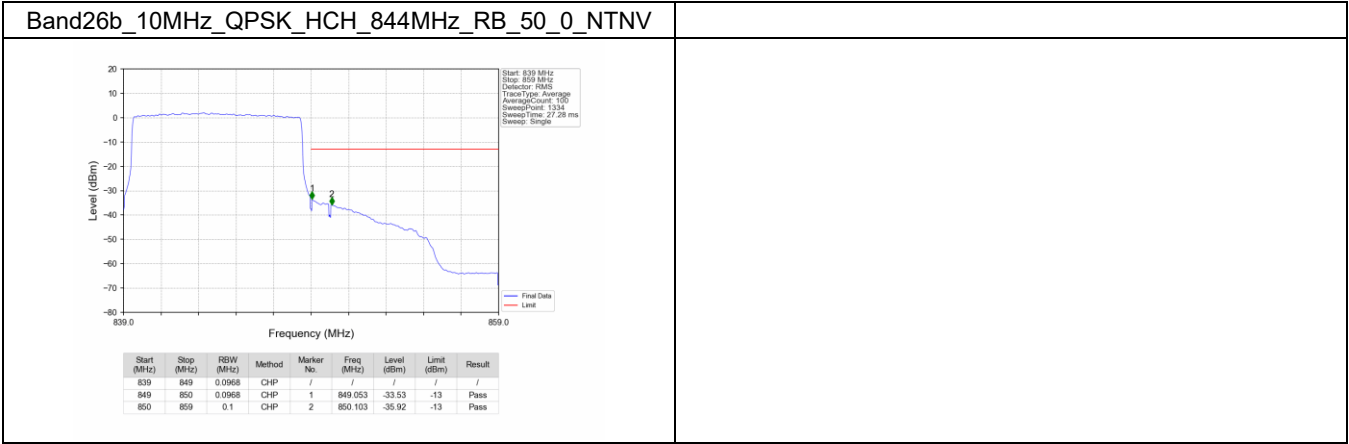
5.2.3 B26b_5MHz





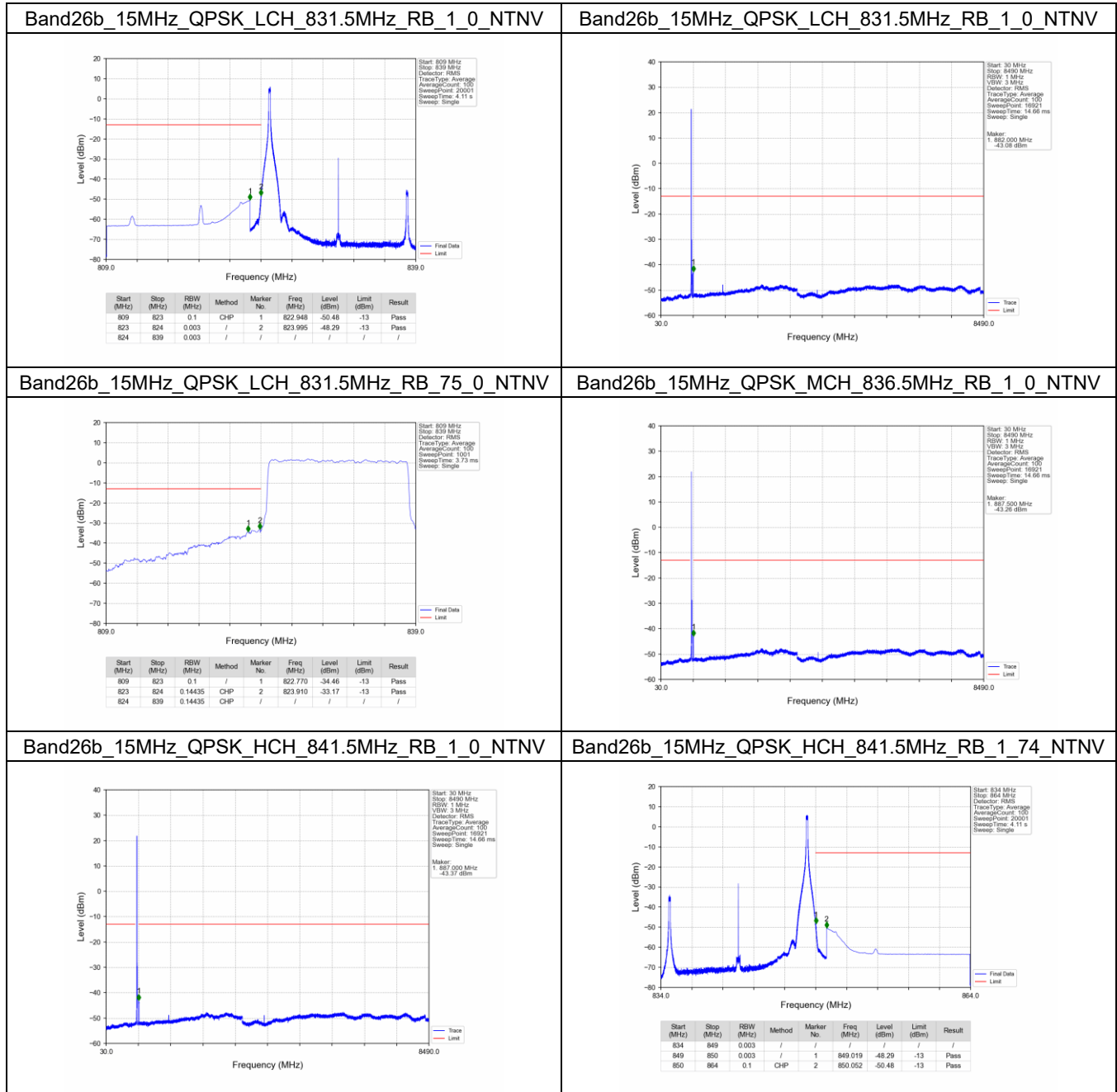
5.2.4 B26b_10MHz

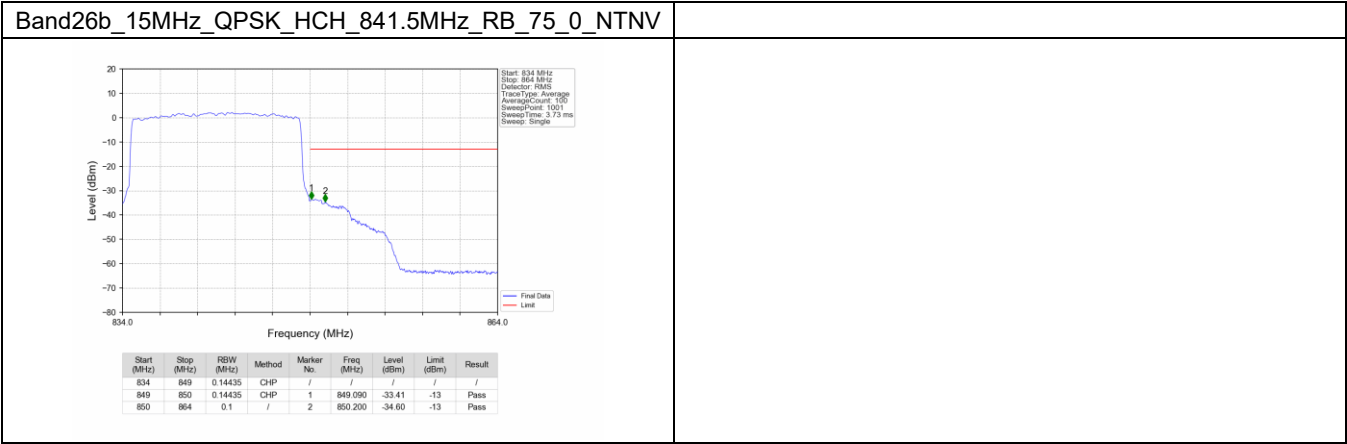






5.2.5 B26b_15MHz







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6. Frequency Stability (IC)

6.1 Test Result

6.1.1 B26b_10MHz

Band: 26b / Bandwidth: 10MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	OBW (FL - FH) (MHz)		Limit	Verdict
		Size	Offset			FL	FH		
QPSK	836.5	50	0	20	LV	831.978	840.977	824 to 849	Pass
					NV	831.978	840.982	824 to 849	Pass
					HV	831.978	840.987	824 to 849	Pass
				-30	NV	832.003	840.991	824 to 849	Pass
				-20	NV	831.972	840.985	824 to 849	Pass
				-10	NV	831.974	840.979	824 to 849	Pass
				0	NV	831.973	840.988	824 to 849	Pass
				10	NV	831.978	840.988	824 to 849	Pass
				30	NV	831.972	840.986	824 to 849	Pass
				40	NV	831.979	840.986	824 to 849	Pass
				50	NV	831.975	840.985	824 to 849	Pass

---End of Attachment---